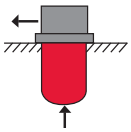
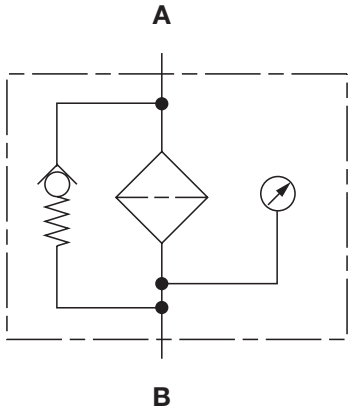
SF Series

In-tank Suction Filters

360 psi • up to 200 gpm



Hydraulic Symbol



Features

- Non-welded housing design reduces stress concentrations and prevents fatigue failure.
- Inlet/Outlet port options include NPT port or SAE 4-bolt flange to allow easy installation without costly adapters.
- O-ring seals are used to provide positive, reliable sealing. Choice of O-ring materials (nitrile rubber, fluorocarbon elastomer, or ethylene propylene rubber) provides compatibility with oil/water emulsions, high water base fluids, and synthetic fluids.
- Bolt-on lid requires minimal clearance for removal.
- A mechanically actuated, electrical, electrical / visual (lamp), or vacuum gauge bypass indicator can be installed.
- Bypass valve, located in element end cap, with low cracking pressure prevents pump cavitation.

Technical Specifications

Mounting Method	4 mounting holes - filter head	
Port Connection	Inlet	Outlet
110	3/4" SAE-12 3/4" BSPP 3/4" SAE-12	3/4" SAE-12 3/4" BSPP 3/4" NPT
240	1 1/4" SAE-20 1 1/4" BSPP 1 1/4" SAE-20	1 1/4" SAE-20 1 1-4" BSPPP 1 1/4" NPT
330	2" NPT 2" BSPP 2" NPT 2" NPT	2" SAE-32 2" BSPP 2" SAE CODE 61 1 1/4" SAE-20
950	3 1/2" SAE Code 61	3 1/2" SAE Code 61
1300	4" SAE Code 61	4" SAE Code 61
Flow Direction	Inlet: Bottom	Outlet: Side
Construc. Materials	Housing	Lid
SF 110-330 SF 950-1300	Aluminum Ductile Iron	Aluminum Ductile iron
Flow Capacity		
110 240 330 950 1300	5 gpm (20 lpm) 15 gpm (57 lpm) 30 gpm (114 lpm) 175 gpm (662 lpm) 200 gpm (757 lpm)	
Housing Pressure Rating		
Max. allowable working pressure	360 psi (25 bar)	
Fatigue Pressure	360 psi (25 bar) @ 700,000 cycles	
Burst Pressure	110 240 330 950-1300	1080 psi (75 bar) 1230 psi (85 bar) 1440 psi (100 bar) >1440 psi (100 bar)
Element Collapse Pressure Rating		
W/HC	290 psid (20 bar)	
Fluid Temp. Range	14°F to 212°F (-10°C to 100°C)	
Consult HYDAC for applications operating below 14°F (-10°C)		
Fluid Compatibility		
Compatible with all hydrocarbon based, synthetic, water glycol, oil/water emulsion, and high water based fluids when the appropriate seals are selected		
Indicator Trip Pressure		
ΔP = 3 psi (0.2 bar) -10% *(standard)*		
Bypass Valve Cracking Pressure		
ΔP = 3 psi (0.2 bar) +10% *(standard - sizes 60, 950, 1300)* ΔP = 4.4 psi (0.3 bar) +10% *(standard - sizes 110,160,240,330)*		

Model Code

SF W 330 W G 25 UE 1 . X / 3

Filter Type
SF = In-Tank Inlet Suction Filter

Element Media
W = Wire Mesh

Size
110, 240, 330, 950, 1300

Operating Pressure
W = suction operation

Type of Outlet Connection
C = 3/4" Threaded SAE 12 *(sizes 110)*
E = 1-1/4" Threaded SAE 20 *(sizes 240 - 330)*
G = 2" Threaded SAE 32 *(size 330)*
NPT available w/Adapter
O = 3.5" SAE 56 Flange *(size 950)*
P = 4.0" SAE 64 Flange *(size 1300)*

Filtration Rating *(micron)*
25, 74, 149 = W

Type of Clogging Indicator *(static)*
A, UE, UF

Type Number

Modification Number *(latest version always supplied)*

Outlet Port Configuration
3 = NPT *(size 110, 240) (with adapters)*
12 = SAE Straight Thread Inlet/Outlet Connection *(sizes 110, 240, 330)*
16 = SAE Code 61 Flange *(sizes 330-1300)*

Seals
(omit) = Nitrile rubber (NBR) *(standard)*
V = Fluorocarbon elastomer (FKM)
EPR = Ethylene propylene rubber (EPR)

Bypass Valve
(omit) = 3 psid (0.2 bar) *(standard sizes 60, 950, 1300)*
(omit) = 4.4 psid (0.3 bar) *(standard sizes 110, 160, 240, 330)*
KB = No Bypass

Supplementary Details
SO263 = Modification of ON and W/HC elements for Skydrol or HYJET phosphate ester fluids
SFREE = Element specially designed to minimize electrostatic charge generation

Replacement Element Model Code

0330 RS 25 W / V

Size
0110, 0240, 0330, 0950, 1300

Filtration Rating *(micron)*
25, 74, 149 = W

Element Media
W

Seals
(omit) = standard
V = Fluorocarbon elastomer (FKM)
EPR = Ethylene propylene rubber (EPR)

Bypass Valve
(omit) = 3 psid (0.2 bar) sizes 60, 950, 1300
(omit) = 4.4 psid (0.3 bar) sizes 110, 160, 240, 330
KB = No Bypass

Supplementary Details
SO263 = *(same as above)* SFREE = *(same as above)*

Clogging Indicator Model Code

VR 2 UE . X /

Indicator Prefix
VR = Return Filters

Trip Pressure
0.2 = 3 psid (0.2 bar)

Type of Indicator
A = No indicator, plugged port
UE = Vacuum gauge
UF = Vacuum switch

Modification Number

Supplementary Details
Seals
(omit)= Nitrile rubber (NBR) *(standard)*
V = Fluorocarbon elastomer (FKM)
EPR = Ethylene propylene rubber (EPR)

(*For additional details and options, see Section G - Clogging Indicators.*)

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